

# Ozone Concentrations in San Juan County



NMED / Air Quality Bureau

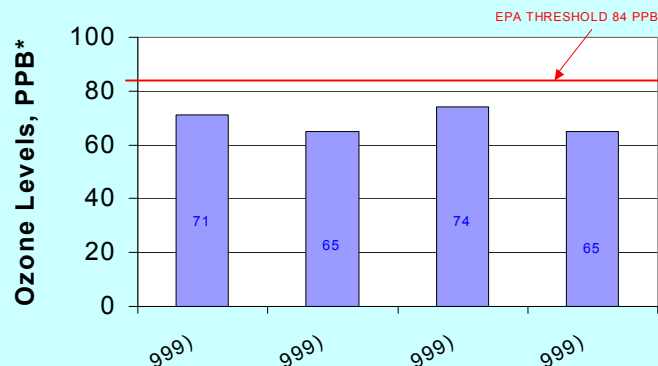
November 6, 2002

# Ground-level Ozone in San Juan Co.

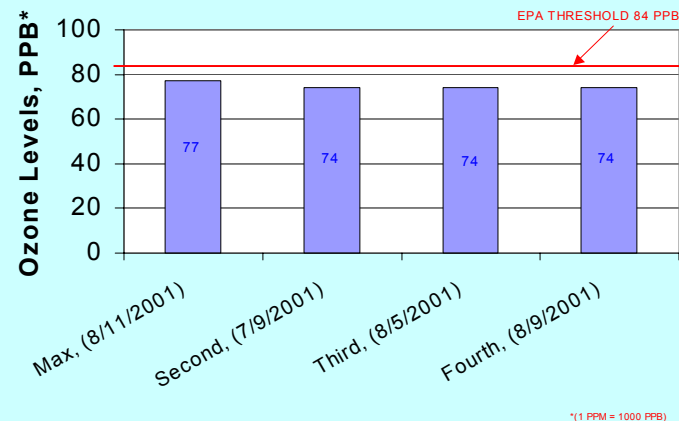
- ⇒ Elevated ozone levels monitored at various sites around the county in the 1990s
- ⇒ Close to exceeding the Federal health-based standard
- ⇒ Health complications, especially for
  - children
  - elderly
  - people with respiratory conditions
  - people who exercise

# Ozone Monitoring Results, Substation

1999 Daily Highs (8 hour averages)

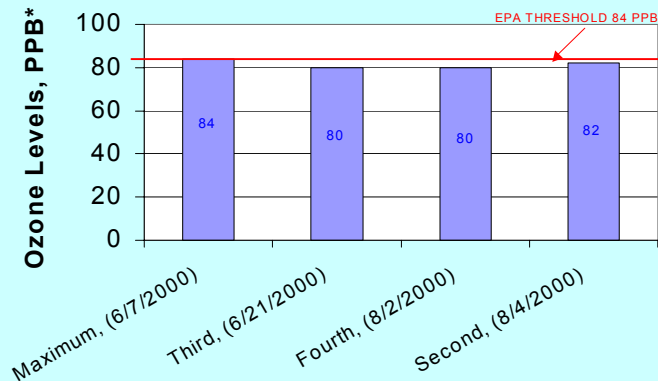


2001 Daily Highs (8 hour averages)

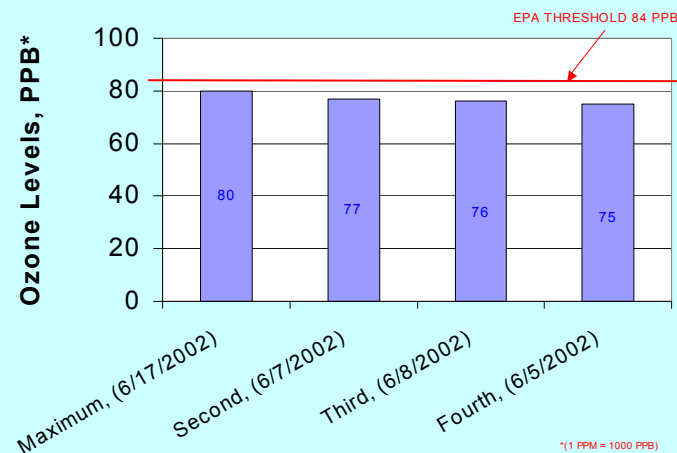


➔ Federal 8  
hour Ozone  
Standard:  
84 ppb

2000 Daily Highs (8 hour averages)

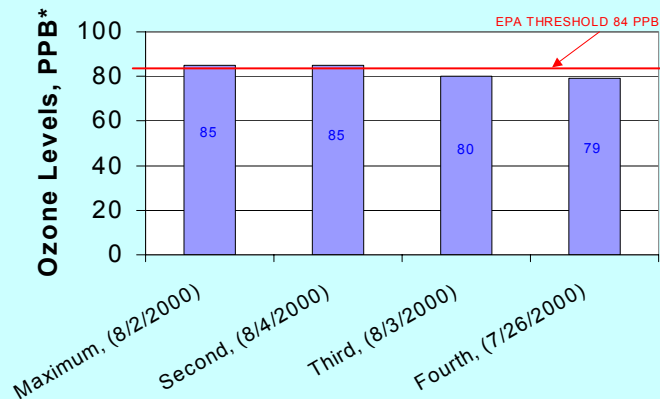


2002 Daily Highs (8 hour averages)

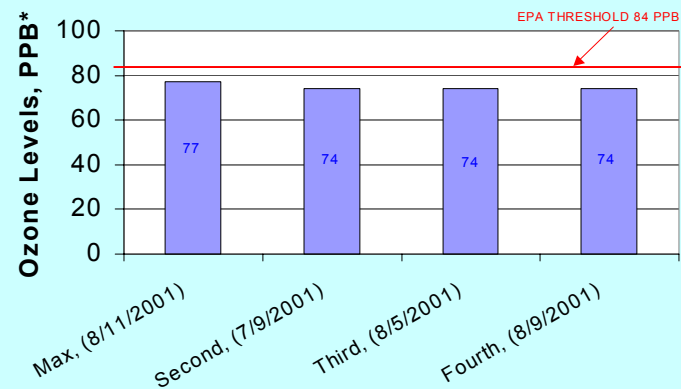


# Ozone Monitoring Results, Bloomfield

2000 Daily Highs (8 hour averages)

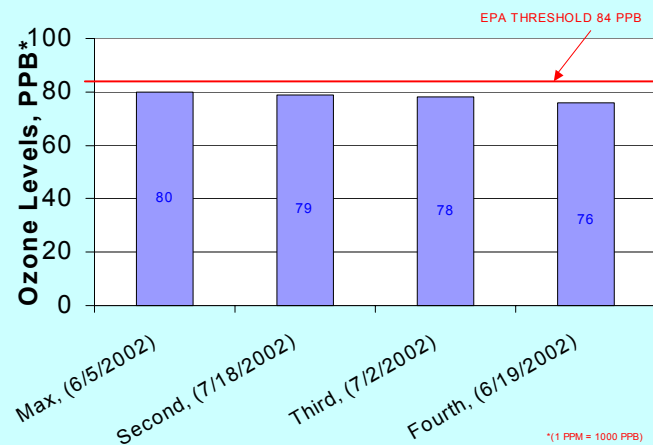


2001 Daily Highs (8 hour averages)

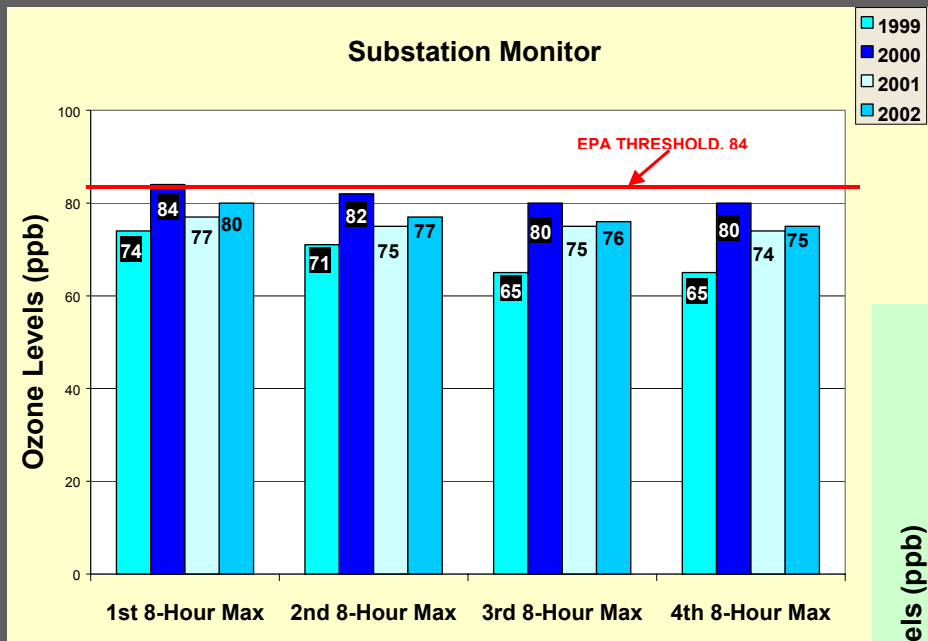


Federal 8-hour Ozone Standard: 84 ppb

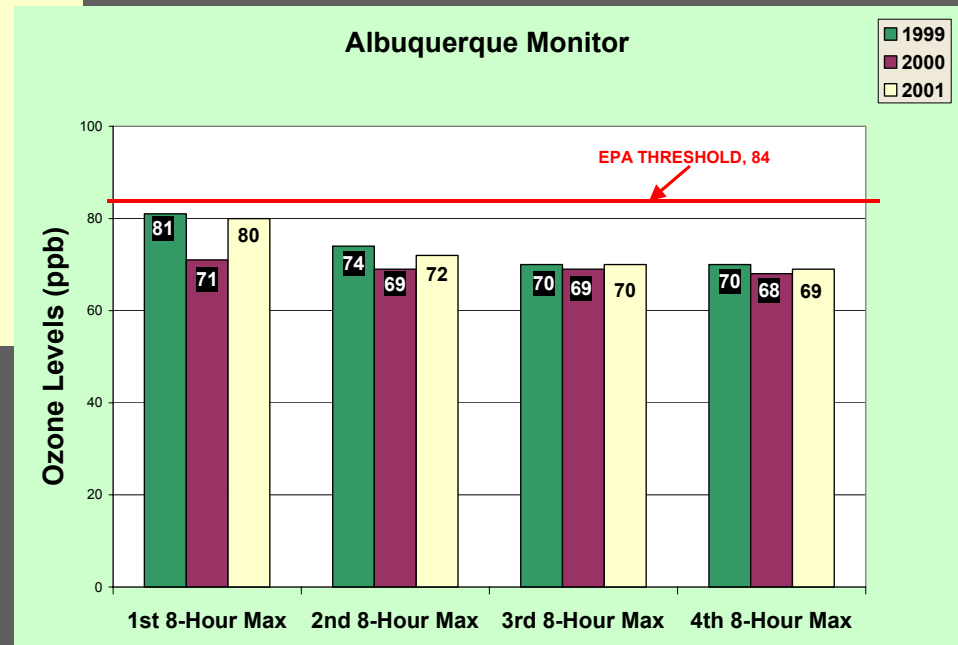
2002 Daily Highs (8 hour averages)



# Four Corners Ozone Comparable to Albuquerque



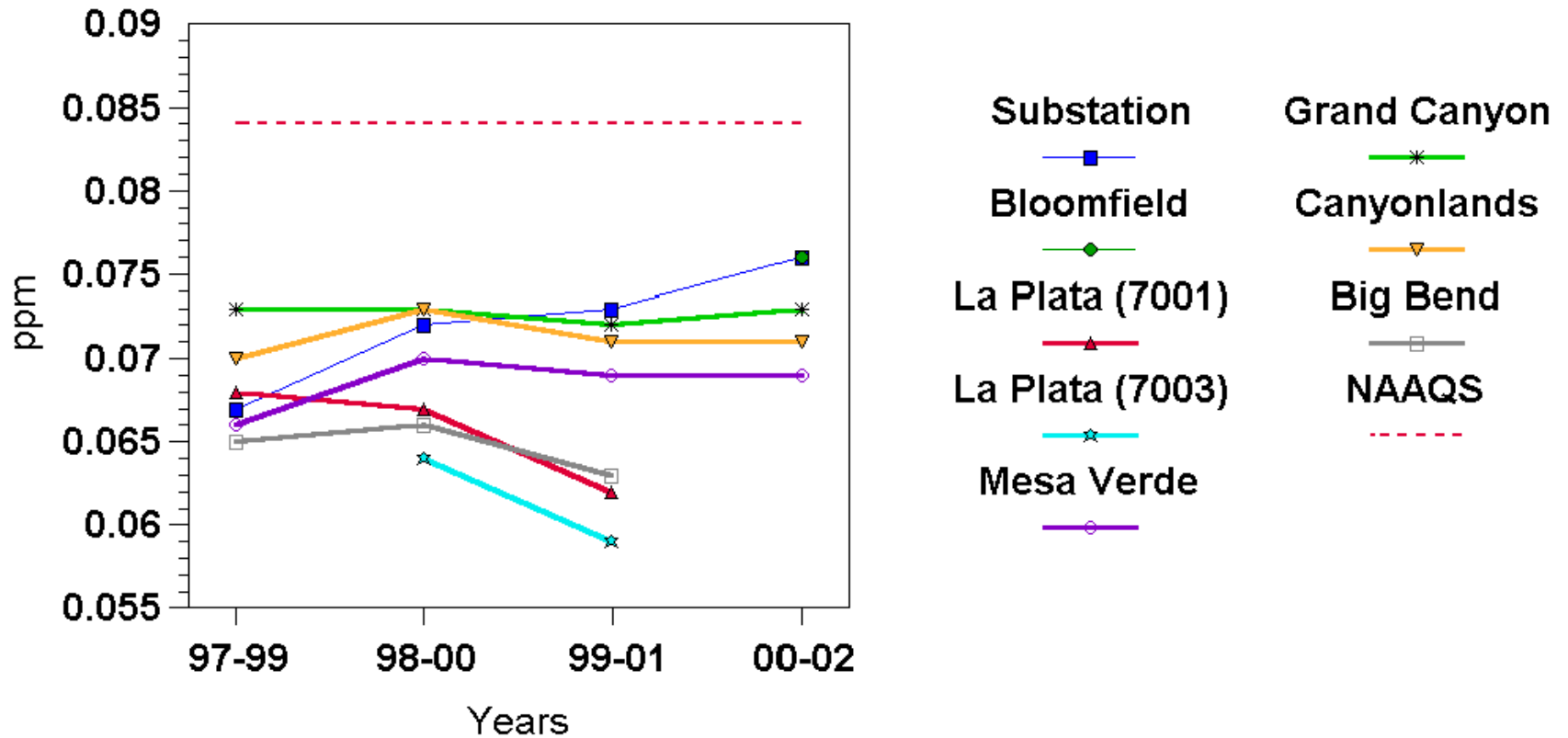
Substation 3 year average of 4<sup>th</sup>  
highest reading = 76 ppb



Albuquerque 3 year average of 4<sup>th</sup>  
highest reading = 69 ppb

# 8-hour Ozone Trends

Substation/Bloomfield Sites in San Juan Co., NM  
Compared to other Regional Sites  
3-year running design values



2002 data preliminary (design values for Substation & Bloomfield = 0.076 ppm)  
Substation ozone monitoring began 5/8/97  
Bloomfield ozone monitoring began 6/7/2000

# What if the area goes “non-attainment”?

- ⇒ Requires federal permitting program requiring “lowest achievable emission rate” controls and offsets for new and modifying air pollution facilities
- ⇒ Requires state to develop plan to bring area back into compliance with standards, this can include regulations for sources not previously regulated or permitted or more regulation for sources already regulated

# Timeline

- ⇒ April 2002: First public meeting in Farmington
- ⇒ October 2002: First Task Force meeting
- ⇒ November 2002: Public meeting in Farmington presenting 2002 monitoring results and information from NM Dept. of Health



# Available Resources

- ⇒ NMED Air Quality Bureau
- ⇒ NM Dept. of Health
- ⇒ EPA Region 6 grant funding to begin to study the problem
- ⇒ NMOGA participation/collaboration
- ⇒ San Juan Task Force

# Summary

- ⇒ Ozone is a health hazard and environmental pollutant
- ⇒ We need to collaborate resources to study and develop solutions that work for all of us
- ⇒ San Juan Ozone Task Force can provide direction for the efforts

# NMED-Air Quality Action Items

- ⇒ Complete detailed inventory, smaller non-permitted sources, biogenic, and mobile sources
- ⇒ Examine possibility of ozone transport
- ⇒ Examine regional aspects with monitor data from surrounding states, Tribal, and National Parks
- ⇒ Conduct VOC monitoring at two sites, summer 2003
- ⇒ Complete ozone modeling
- ⇒ Coordinate with DOH on correlation between ozone levels and epidemiological data